**Technologies Used**

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| Java 8 , springboot,springmvc, h2 database, thymeleaf,tomcat |

**How To Run**

1. Download code zip from<https://github.com/rachanaSane/AddressBook>
2. Import code into your favourite editor (eclipse/intellij)
3. Open class com.pwc.au.book.AddressBookApplication , right click class and run as javaApplication.
4. Open URL <http://localhost:8080/>

**Assumptions**

* This is a web application with in memory database. No default values are present.
* Address Book name should be unique
* While comparing address books, names are case sensitive.
* Contact Name inside Address book need not be unique.
* only 2 address books could be compared. But code is written such a way that it could be extended if required to support multiple address books.
* Search for unique contact names across address books is case sensitive.

**Things could have improved**

There are several things which could have been improved. But I tried to complete within 8 hours hence remaining.

* Better test coverage.
* Adding feature to support no same contact name within one address book
* Generic Error handling with custom exception classes.
* Introducing service layer in between controllers and repositories
* Better css classes for frontend, better structure
* Better UI features like ability to select from existing address books while comparing

**Some screenshots**

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